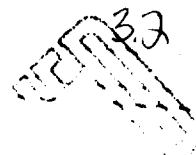


# Woodward-Clyde Consultants

Engineering & science applied to the earth & its environment



3 2 1542



3738

November 25, 1992

Mr. Wade Knight  
Q.A. Officer  
U. S. EPA Environmental Services Division  
College Station Road  
Athens, Georgia 30613

Re: Transmittal of Phase III Data Packages  
RI/FS for McIntosh Plant Site  
Olin Chemicals McIntosh, Alabama  
WCC File 90B449C-335

Dear Mr. Knight:

Per instructions from Mr. Jim Brown of Olin, Woodward-Clyde Consultants is submitting the analytical data packages for the spike, blank and split samples for the Phase III sampling activities that were conducted from August 10, through September 4, 1992. The attached data packages are organized by sample delivery group (SDG) and include the data for the analyses by Contract Laboratory Procedures (CLP) for the following samples:

Sample ID	SDG	Analyses
BCP220, BOP148, BSL107	9281	TCL volatile organics, TCL semivolatile organics, TCL pesticide/PCBs and selected TAL constituents <sup>1</sup>
BSLSPK and BSLBLK	9281	TCL volatile organics, TCL semivolatile organics, and selected TAL constituents <sup>2</sup>
SGFP09 and SGFP19	9294	TAL mercury
SGFP25	9293	TAL mercury
SGTR01	9296	TAL mercury
SGBG01	9286	Selected TAL constituents

## NOTES:

- <sup>1</sup> Arsenic, cadmium, chromium lead, mercury, nickel, selenium, silver, antimony, beryllium, copper, zinc, thallium, and cyanide.
- <sup>2</sup> Analyses specified by EPA on-site representative.



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Mr. Wade Knight - 90B449C  
U. S. EPA Environmental Services Division  
November 25, 1992  
Page 2

As specified in the Phase III SAP submitted to EPA on June 25, 1992, non-CLP methods were employed for certain analyses, including the following split samples:

Sample ID	SDG	Analyses
BSB110, BSB210 and BSL107	9280	TCLP mercury
SGFP09, SGFP19, SGFP25, and SGTR01	Not Applicable	Laboratory screening method for hexachlorobenzene analysis

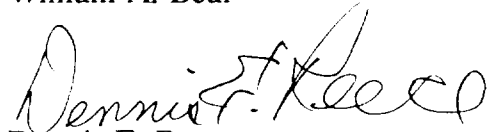
The analytical data packages for these non-CLP analyses are also attached.

If you have any questions regarding these data packages, please contact Mr. Jim Brown at 615/336-4308.

Very truly yours,



William A. Beal



Dennis E. Reece

WAB:vv

Attachments

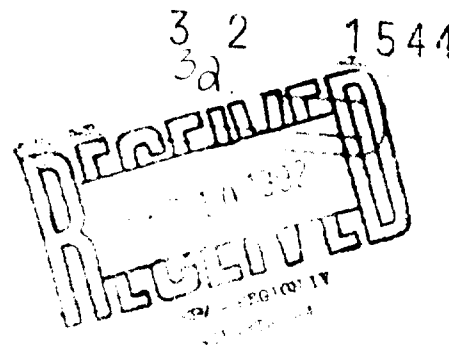
cc: **Ms. Cheryl W. Smith (w/o attachments)**  
**Mr. D. E. Cooper (w/o attachments)**  
**Mr. J. C. Brown (w/o attachments)**  
**Ms. T. B. Odom (w/o attachments)**

**Woodward-Clyde  
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Engineering & sciences applied to the earth & its environment



September 9, 1992



Ms. Cheryl Walker Smith  
Senior Remedial Project Manager  
United States Environmental Protection Agency  
345 Courtland Street Northeast  
Atlanta, Georgia 30365

Re: Summary of OU-2 Sediment Analyses  
RI/FS for McIntosh Plant Site  
Olin Chemicals  
McIntosh, Alabama  
WCC File 90B449C  
Document Control Number WCC-321

Dear Ms. Smith:

On behalf of Mr. Jim Brown of Olin Chemicals, Woodward-Clyde Consultants (WCC) is transmitting a summary of the OU-2 sediment analyses for the Phase I and Phase II sampling activities. We hope that this will aid in your review of the RI/FS deliverables.

If you have any questions regarding this submittal, please contact Mr. Jim Brown at 615-336-4308.

Very truly yours,

  
William A. Beal



Dennis E. Reece

WAB:kdI  
Attachment

cc: Mr. J.C. Brown  
Ms. Toni Odom

90B449C/321 OLIN



**Woodward-Clyde  
Consultants****SUMMARY OF OU-2 SEDIMENT ANALYSES****PHASE I**

## 112 Sediment Grab Samples

All 112 samples were analyzed for mercury

101 samples were analyzed for the sediment screening parameters (hexachlorobenzene, pentachlorobenzene, and pentachloronitrobenzene)

21 samples analyzed for CLP TCL and TAL analyses

10 samples analyzed by both CLP and screening methods

## 3 sediment cores (5 samples per core) (C1, C2, C3)

All 15 samples were analyzed for mercury

10 samples were analyzed for sediment screening parameters

6 samples were analyzed for CLP TCL and TAL analyses

1 sample was analyzed by both CLP and screening methods

Figure 8 of the Preliminary Site Characterization Summary (PSCS) shows the sediment locations and identifies which samples were analyzed for the CLP analytes. The selected locations were based on Figure 5 in the Field Sampling Plan FSP of the May 25, 1992 amended work plan.

**PHASE II**

## 5 Core Locations

Core C2-2 (at same location as Phase I C2, but to a deeper depth)

7-8 ft sample (Hg semivolatile organics and volatile organics)

10-11 ft sample (Hg, semivolatile organics and volatile organics)

13-13.5 ft sample (Hg, semivolatile organics and volatile organics)

Core I7

3 samples in upper six inches (Hg, semivolatile organics)

3-4 ft sample (Hg, semivolatile organics and volatile organics)

6-7 ft sample ( Hg, semivolatile organics and volatile organics)

**Woodward-Clyde  
Consultants****Core E2**

- 3 samples in upper six inches (Hg, semivolatile organics)
- 5-6 ft sample (Hg, semivolatile organics and volatile organics)
- 8-9 ft sample ( Hg, semivolatile organics and volatile organics)

**Core OD15**

- 0-1 ft sample (semivolatile organics; already had mercury result from grab sample)
- 1-2 ft sample (Hg, volatile organics and semivolatile organics)
- 2-3 ft sample (Hg, volatile organics and semivolatile organics)

**Core OD25**

- 0-1 ft sample (Hg, and semivolatile organics; although already had mercury from grab sample location, analyzed again to confirm result)
- 2-3 ft sample (Hg, volatile organics and semivolatile organics)
- 4-5 ft sample (Hg, volatile organics and semivolatile organics)

See Section 2.2.3.2 of the PSCS for discussion of Phase II sampling

**SAMPLE ID**

The samples are identified as sediment grab (SG) or sediment core (SC) samples. The samples are further identified by area. For the basin, this area identification is a three digit grid location related to Figure 8 of the PSCS. For example, a sediment grab sample from G08 in the basin is identified as SGG08.

The ditch samples are identified by OD for outfall ditch (current wastewater ditch), DD for the current discharge ditch and BD for the basin ditch (former discharge ditch); these are followed by a sequential number related to the location shown on Figure 8 of the PSCS. For example, the fourth grab sample collected from the outfall ditch is identified as SGOD04.

The Phase I cores were identified as C1, C2, and C3 followed by the sequential number of the sample. For example the second sample collected from core C1 is SCC102.

During Phase II a second core was completed at location C2. Five samples were obtained during Phase I at this location; therefore, the first Phase II sample is identified as SCC206. The locations of the other 3 Phase II cores are identified by the grid location or the location in the ditch from which it was sampled. For example, the second sample from the Phase II core at OD25 is identified as SCOD252

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Appendix F of the PSCS summarizes the analytical Data. (Only the results reported above the Contract Required Quantitation Limit (CRQL) are presented for the CLP data). The Phase II mercury results are not in Appendix F, but are presented in Table 13 and Table 14 and also in Appendix C. The data in Appendix F are sorted by location (i.e. basin , current discharge ditch, outfall ditch and former discharge ditch) and then in alphabetical order.

In Volume II of the PSCS, the data are presented by sample delivery group along with the data validation report for that sample delivery group.